

618T2 TRANSCEIVER



COLLINS 618T SSB AIRBORNE TRANSCEIVER, the "standard" in HF radios for both military and commercial aviation over the past twenty years! We have 618T-2 model covering 2,000 to 29,999 MHz SSB-AM-CW in possible

28000 channels. Power output: 400 watts SSB PEP, 125 W AM-CW; 52 ohm output impedance. Stability 0.8 ppm per month. Sensitivity SSB: 1 uv for 10-db S+N/N ratio. Selectivity SSB: 2.85 KHz, 6 db down; 6.0 KHz, 60 db down. Audio input: 600 ohms balance. Uses two 4CX250's in P-A; tube and transistor circuitry. Switch and meter on front for monitoring internal power supplies. Separate control box necessary for channel selection (see below). Racks & cables not available. Requires 110-120 VAC 400 Hz 3 ϕ 1 KVA and 1 ϕ 160 VA; also +27 VDC 4.5 amps. 7.6x10.1 x22.2, 58 lbs. Used-repairable w/book, \$1450.

714E2A CONTROL BOX for 618T; channel and mode LSB-USB-AM selection and RF SENS. 3 lbs sh. Used, \$85.00 with 618T purchase.

C-3940 (714E3) CONTROL, like 714E2A but mode LSB-USB-AM-CW; used, \$100 w/618T purchase.

PP-2352 INVERTER (page 10, WS-89 Catalog), usable with 618T-2 if modified slightly. Output 115 VAC 400 Hz 3 ϕ 1.4 KW continuous from 28 VDC 110 A input. 7.6x7.8x19.5, 52 lbs. Used-repairable, \$50 with 618T purchase!

180L3/CU-351 ANTENNA COUPLER (page 4 WS-89 9 Catalog) is usable with 618T. 10.5x7.8 x11.5, 24#. Used, \$115. MANUAL, repro, \$10.

LS-103 P-A SPEAKER



LS-103/TIQ PUBLIC ADDRESS SPEAKER for indoor or outdoor use; conservatively rated for 30 watt output with 50-10000 Hz response. Has 16 ohm voice coil & driver plus matching transformer with taps for 250, 500, 1000, or

2500 ohm input; 19" dia horn. Mounts to 7/8" dia pipe and has lock-joint to adjust angle. Rugged speaker out-performs most new commercially-made speakers with similar "printed" specs! Driver & coil 20.5"L; o/a 26"L, 26 lbs sh. Used, \$29.50; 2 for \$50.00 MT-128A MOUNTING TRIPOD for LS-103, extends 48"-90"H. Steel, 23 lbs. Used, \$20. 2/\$35.

RL-3 REEL with RD-110 wire for speaker hook-up; approx 90 ft, 5 lbs sh. Used, \$4. CY-37/TIQ WOOD CASE for storage of two LS-103's plus space for cable and other items. Hinged with hasp fasteners; 23x34x22, 85 lbs sh. Used, \$10.00

RD-365 RECORDER



RD-365 TAPE RECORDER, transistorized monaural unit uses standard 7" audio tape and plays/records at 3.75 or 7.5 IPS. Has VU-meter, footage counter, Fast Forward/Revind. Built-in speaker plus jacks for mic, bridge input, and external speaker; 100-7500 Hz response. Has plastic case. Requires 115 VAC 60 Hz. Mic, reels and tape not supplied. Tested for "basic play-back/record operation; adjustments may be required!" 14.5x13.3x7.3, 28 lbs. Used, \$36. MANUAL for above, \$10. MIC, used, \$6.00

"UNUSED" RD-365 set with mic, two blank tape reels, one take-up reel, and manual, \$75.00

R-1004 FIELD RECEIVER



R-1004/GRC-109 RECEIVER, compact unit in black cast-aluminum box covers 3 to 24 MHz AM-CW in bands 3-6, 6-12, and 12-24 MHz; 455 KHz IF. Bandwidth 9 KHz. Sensitivity 5 uv for 10 DB signal/noise. 30 MW audio output into 4000 ohms. With tubes 4/1T4, 1U5, 1L6. Requires 1.5 VDC 300 ma and 90-108 VDC 20 ma. 8.6x5.5x5.5, 12 lbs sh. Used-repairable, \$59.50-RR-2 RECEIVER, as above but different #, \$60. H-65 HEADSET for use w/above. Unused, \$13.

PP-2685/GRC-109 or RP-2 POWER SUPPLY for above; provides DC voltages from 75-260 VAC 40-400 Hz; 8.6x5.5x5.5, 14 lbs. Used, \$24.95

RT-3 TRANSMITTER, companion to RR-2; like T-784/GRC-109 transmitter but without codeburst capability. Requires PP-2685 or RP-2 for power; 8.6x5.5x5.5, 11 lbs. Used, \$25.00

G-43 HANDCRANK GENERATOR with legs & seat (page WS-89 Catalog); will power R-1004/RR-2 during field operation. 28 lbs; used, \$39.50

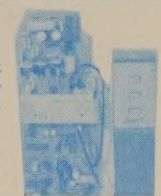
CN-590/GRC-109 VOLTAGE REGULATOR for use with G-43 and R-1004/RR-2. Has 6 foot cord w/PL-244 plug; 4#. Used, \$14.95; unused, \$20

HF RECEIVER COUPLER

CU-1099/FRR SOLID-STATE ANTENNA COUPLER (Wiltek 108); allows use of single antenna for upto eight 2-32 MHz receiver. 50 ohm input and output; eight BNC connections. Requires 105-125 VAC 50-60 Hz. 5.3x9.4x15, 15 lbs sh. Used, \$65.00



EMERSON RC SET



EMERSON MULTI-FUNCTION REMOTE CONTROL SET, intended for use with ceiling fan & light, but receiver circuit board and push-button remote transmitter should adapt to experimentation and your projects. Originally one button brightened light and other two controlled speed of special AC motor (not available). Circuit board outputs to motor are fixed voltages with sequence and voltages dependent upon positions of four switch DIP code switch. Sixteen codes possible; remote actuates sequence. Receiver is not isolated from power line so extra care is necessary when working with this device. Transmitter requires 9 V battery (not supplied). Hook-up info included; 2 lbs sh. #RC-5100/1, NEW, \$14.95

COLLINS 516F2



COLLINS 516F2 AC POWER SUPPLY for the popular 32S- and KWM-Series transmitters; usable with or without 30L1 power amp. Complete with cabinet, 5U4 & 5R4 tubes, and cables. 10x7.5x11, 33 lbs sh. Used, \$99.50

* ADD \$10.00 for choice of cabinet emblem. * #NC-516F2, above less cabinet & tubes \$69.50

516E2 DC SUPPLY, solid-state unit powers above S-Line transmitters from 24 to 28 VDC power input only. Will not power 30L1. 10x6 x7.5, 24 lbs. Used, \$49.50



30-76 MHZ DIPLEXER



CU-2194/URO DIPLEXER, passive two-port notch filter and combiner network which allows simultaneous use of two transmitters, receivers or transceivers on a common antenna provided that operating frequencies are slightly offset. Usable over range of 30-76 MHz FM and intended for use with PRC-25-77 and VRC-12 transceivers; will work commercial 6-meter equipment

Has NULL METER and separate TUNE controls and Fine-Coarse-Monitor MODE SWITCH, and RT1-RT2 BNC connections. Unit may also be used as man-portable relay terminal. Maximum RF power capability to each channel: 65 watts continuous. Operational isolation: 45 db min. @ 2 MHz separation. Insertion loss: 2 db max; VSWR 2.0:1 max. 4x11x7, 9 lbs sh. Used, \$99.50; SHOCKMOUNT, used, \$15.

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A PRAYER AWAY**





COLLECTOR BOOKS

•GUIDE TO OLD RADIOS: POINTERS, PICTURES, AND PRICES by David & Betty Johnson, brief descriptions, prices ranges and pictures of 3500+ radios made in 1920's & 30's. Also some broadcast history, speakers and cabinets. Features 8 color pages! 192 pp. \$16.95

•RADIO MANUFACTURERS OF THE 1920'S, VOL. 2, Freed-Eisemann through Press by Alan Douglas; second in the series includes Freshman, Grebe, Howard, Kellogg, Kennedy, Midwest and others. Facts, lists, pictures and advertising; 275 pp, 3 lbs sh. \$24.95
RADIO MANUFACTURERS...VOL. 1, 225 pp. \$19.95

•THE RADIO COLLECTOR'S DIRECTORY AND PRICE GUIDE by R. Grindler and G. H. Fathauer "in print" again! Lists 8500+ sets from 1920 through 1940 and estimated current market value when possible. Also history, pictures & collecting tips; 320 pp, 3 lbs sh. \$16.95

•COMMUNICATION RECEIVERS, The Vacuum Tube Era by R. Moore; very popular! 112 pp, \$14.95
70 YEARS OF RADIO TUBES AND VALVES by Stokes 250 pp softbound. Current price, \$19.95
ANTIQUE RADIOS, RESTORATION AND PRICE GUIDE by D. & B. Johnson; Current price \$14.95

•AUDIO ANTHOLOGY, VOL. 1 edited by C. G. McProud, collection of articles from Audio Engineering magazine over May 1947 thru Dec 1949. Circuits using 6AS7, 6V6, VT-4/211, 300A/B and related topics; 124 pp., 2#. \$16.95
•VOL. 2, 1950 thru 1952, \$16.95



MORSE CODE TUTOR

MORSE TUTOR from GGTE, a highly acclaimed floppy disc program for the Novice who would like to learn the International Morse Code or for the advanced upto Extra Class operator! Runs in IBM PC or clone. Set code speeds from 1 to 100 WPM Standard or Farnsworth mode. Letters, numbers, punctuation & FCC special characters; random characters, words, QSO's for each lesson + review of previous. Suggested \$19.95 \$15.95



HEADSETS

HS-33 600 OHM HEADSET, a find of ANB-H1 elements allows us to offer this favorite headset again. With brown leatherette HB-7 headband (not U.S. mfg), 18" cord & PL-354 plug; 3#. #HS-33-BR, \$18.95

#HS-23-BR, as above except with unused R-14 2000 ohm elements, \$10.95
#M301 4" CHAMOIS CUSHIONS f/above, \$5/pair.
#CD-307 65" EXTENSION CORD for HS-23/33, \$2.

H-65 HEADSET, similar to H-16 but with 5 ft cord & PJ-054 plug; has 250 ohm elements but built-in matching transformers produce 8000 ohm (series) impedance. 3#; used, \$9.95

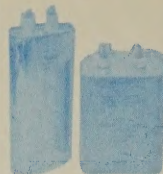
SWITCHBOARD CORD with Switchcraft 413 double plugs on each end. Cloth-covered cord; o/a 30"L, 2 lbs sh. #SWB-C-169374, \$4.95

NEW COAXIAL CABLE

NEW MANUFACTURE AND BRANDED WITH STANDARD TYPE NUMBERS TO MIL-R-17A SPECIFICATIONS.

Prices listed for lengths indicated. In between lengths use the higher price.
LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE!
COAX Ohms 100' 500' 1000' 5000'
RG-8/U 52 \$.27 .25 .24 .23
RG-58/U 53.5 .15 .14 .13 .13

HV CAPACITORS



HIGH VOLTAGE CAPACITORS, energy storage-types; all non-PCB. Unused:
7 MF 5000 VDC, 3.5x9.3x1.8, 4 lbs. #28F2025, \$12.50
78 MF 2000 VDC peak, 4.5x7.3x3.5, 6 lbs sh, \$18.00
80 MF 2250 VDC peak, 4.5x7.3x3.5, 6 lbs sh. #PX9E38, \$20.00

1000 MF 400 VDC COMPUTER GRADE, compact 4.2x2.5" dia size is ideal for series-wiring in high voltage power supplies; 2 lbs sh. Sprague #102F400, NEW, \$4.25 ea; 10/\$33.00
33000 MF 60 VDC, 5.8"Hx3" dia; Mallory CGS33K60, NEW, \$5 ea. 5/\$20.
51000 MF 40 VDC, 5.5x2.5; used, \$3.

MALLORY PFP ELECTROLYTICS, o/a 4"Hx1.3" dia; NEW:
TWO-SECTION 250/100 MF 350/350 VDC, \$2.50 each
MULTI-SECTION 120/100/100/100 MF 350/300/150/75 VDC, \$1.95 ea

4-DECK SQUARE ROTARY

PAX ELECTRIC 2.3" SQUARE 4-DECK ROTARY SWITCH, each deck 2-pole 11-position non-shorting. Precision quality, gold-plated contacts. Shaft 3/4"L x 1/4" dia, 2#. #SQ-SW-3650, unused, \$21.95



ROTARY STEPPER

ROTARY STEPPING SWITCH, 115 VAC 60 Hz ratchet-type that can be modified to take upto seventeen contacts w/electric reset. 4.2x3.2x2.5, 2#. #SS-109216, NEW, \$4.50

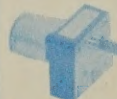


ATTENUATOR NETWORK

ATTENUATOR NETWORK in balanced "H" configuration, 600/600 ohms; 0 to 70 db in eight 10 db steps. 4"H x 2.5" dia, 2#. #ATT/SG15, used, \$9.



10 RPM MOTOR



24 VDC GEARHEAD MOTOR, slow 10 RPM; very slow 3 RPM @ 12 VDC. Plenty of torque because 1/2"L X 1/4" dia cannot be stopped by fingers at either VDC! Nice display motor; o/a 3.5"Lx2" 2 lbs sh. #DCM24-10, NEW, \$9.95

DUAL-SHAFT 12 VDC PM MOTOR good for a variety of battery-powered projects! Approx 2000 RPM on 2 amp load; 550 RPM on 5 amp. Runs on 6 VDC upto 24 VDC varying RPM. Shafts 3/4"Lx1/4" dia. O/a 4.5"Lx2" dia; 2#. Johnson #HC970-S, NEW, \$5.

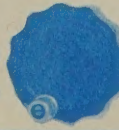
BODINE AC GEARHEAD MOTOR, 200 RPM 1/7 HP 35 in/lb torque, counter-clockwise rotation; 115 VAC 60 Hz input. Shaft 1.3"Lx5/8" dia w/3/16" square key. O/a 8.5"Lx5.6" dia; 14 lbs sh. #ECCI-35E200, used, \$28.95

SARKES FULLWAVE RECTIFIER BRIDGE 400 PIV 30 amp; 1.1" square with spade slip-terminals. #S6464-1, \$2.95 ea; 10/\$25.

HEAVY DUTY LINE CORD, 3-cond #14 wire; 6 ft black flat-type w/right angle plug. 2 lbs sh. #14-3CBF, NEW, \$2.00

LARGE SPIN KNOB

BLACK PLASTIC 2.3" dia SPIN KNOB with 0.5" high crank extension; brass insert for fit on 1/4" dia shaft. #KN-SG15, used, \$2.50 ea



PUBLIC ADDRESS MICS

M-43 P-A MICS, low-impedance omni-directional for public address use; 150 to 4000 Hz response. Swivel mount; UL EV
#M-43-UL, University Loudspeaker mfg, \$9.95
#M-43-EV Electro-Voice mfg., \$8.95

CX-3094 MIC CORD with mating connector for above; 25 ft long. 3106-14S-7P 3-pin male connector on other end; 4 lbs. Used, \$7.50

MT-596 MIC STAND for above with tripod base; Used, \$10.00 ea; 2 for \$16.00

VACUUM CAPACITORS



VACUUM VARIABLE CAPACITORS removed from equipment; Jennings mfg or equal:

#	PF	KV	SIZE	WT#	PRICE
UCS-300-10	10-300	10	8.8"Lx3.1"D	4	\$115.
USLS-465-5	5-465	5	5.6"Lx2.4"D	3	\$90.
UCSX-700-15	25-700	15	9.9"Lx3.8"D	5	\$175.
UCSL-750-5	5-750	5	7.6"Lx3.1"D	4	\$110.
UCSL-1000-3	7-1000	3	7.6"Lx3.1"D	4	\$90.
UCSXF-1500-10	20-1500	10	10"Lx5.1"D	7	\$200.
UCSXF-2000-10	50-2000	10	10"Lx5.1"D	7	\$225.

VACUUM RELAYS

JENNINGS RE-6B or equal VACUUM RELAY, SPDT with 26 VDC 120 ohm coil; 25 KV peak 25 amps AC/DC rating. Max operate time: 25 msec; release 10 msec. 2.3" dia mount flange; o/a 3.3"Hx3.3"D, 2#. Used \$50.

RB1J-26 VACUUM RELAY, SPDT 26 VDC 265 ohm coil; 12 KV peak 15 amps AC/DC rating. Max operate time: 18 ms; release 9 ms. Threaded 3/4" dia base. O/a 2.5"Hx1" dia. Used, \$39.



ALUMINUM CASES



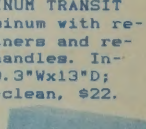
CY-2582 ALUMINUM TRANSIT CASE features flush fitting top and retainers plus spring-loaded side handles. No inconvenient external or internal protrusions with this case! 18"Hx24"Wx18"D, 37 lbs. Used-clean, \$30.00

CY-693/PDR ALUMINUM CASE, four compartments 13x6.5, 3.5x4, 7.5x4 & 1.8x4; may be removed for 13"x10" size x9" deep. Hinged top with hasp fasteners; 12 lbs sh. Used, \$8.00

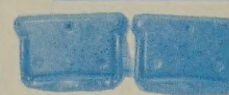


CY-712/PCM ALUMINUM TRANSIT CASE, heavy aluminum with recessed hasp fasteners and retractable side handles. Interior 12.5"Hx20.3"Wx13"D; 21 lbs sh. Used-clean, \$22.

#CS-TS147 ALUMINUM CASE, hinged with hasp fasteners and sturdy top handle. Interior bottom 7.5"Hx16.7"Wx10"D; top 4"H. Nice storage for power, tools, etc; 15 lbs. Used, \$12.



RETRACTABLE HANDLES

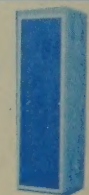


SPRING-LOADED EQUIPMENT HANDLES retract when let go. Heavy-duty handle has 3.7"L rounded grip; 3.7x2.5 steel mount plate is drilled with three 1/4" dia holes. 2#; #HAND-TIQ, used, \$3.50 /pair.

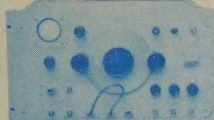
RACK W/ PLEXIGLASS

BUD SERIES 60 RACK CABINET features front and back smoked plexiglass doors; panel size 83"Hx19"Wx24"D. Has louvered sides, perforated top & castor set. O/a 91.5"Hx28"Wx28"D; 350 lbs sh. #60-8319, unused, \$400.

Large used racks available. WRITE!



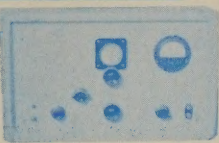
H-P TRANSFER OSCILLATOR



HEWLETT-PACKARD 540B TRANSFER OSCILLATOR, used with frequency counters to accurately measure frequencies from 10 MHz to 12.4 GHz CW, FM, pulse. Usable without counter to 2 GHz with 0.05% accuracy. Unknown signal is fed into 540B and is compared to mixed frequency generated from a stable, adjustable fundamental of 10-220 MHz. Difference of unknown is displayed on 2" CRT (2BP1). Max input 100 MW; output 1 Vrms. Requires 115 VAC 50-440 Hz, 10.5x19x15.3, 44 lbs sh. Used-repairable w/book, \$145.00

HEWLETT-PACKARD 650A

HEWLETT-PACKARD 650A TEST OSCILLATOR for 10 Hz to 10 MHz in six ranges. Output 30 mv to 30 volts; 600 ohm impedance. Output attenuator 0-50 db in 10 db steps, flat +1 db over range. 10.5x19x15, 48#. Used-repairable, \$95. CABINET f/650A, \$10. Manual part-repro, \$12.



TEKTRONIX RM647A

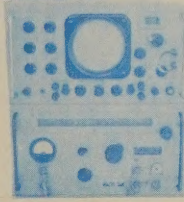


TEKTRONIX RM647A DC to 100 MHz RACKMOUNT SCOPE with 10A2A dual-trace vertical and 11B1 single-trace time base plug-ins. Vertical deflection 0.01 to 20 V/cm in 11 calibrated steps, 1-2-5 sequence plus vernier for 50 V/cm. Modes: Ch 1 or 2, Dual-Trace Alternate, Chopped, Add; 3.5 ns risetime. Sweep 0.1 usec to 2 sec/cm in 23 calibrated steps 1-2-5 sequence plus magnifier to 10 nsec; triggers upto 50 MHz only. 1 KHz output calibrator 0.2 mv to 100 V p-p. With 6x10 cm graticule area, tubes, transistors, and partial-repro of TEK 647A and plug-ins manuals. Requires 95-137/190-273 VAC 50-60 Hz; 7x19x19, 52 lbs sh. Used-repairable, \$325.00

TEK RM647 with 10A2 and 11B1, as above expect DC to 50 MHz only, used-rep, \$275.00

SPECTRUM ANALYZER

TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 MHz to 44.88 GHz in eight bands; 5" SADP7 CRT display. Resolution at 3 db points: 20 KHz over range. Dispersion: 500 KHz-5 MHz adjustable (10-55 MHz); 500 KHz-25 MHz (55 MHz and up). Spectrum calibrator 160 MHz center freq +12.5 MHz. Sensitivity as low as -63 db (10-150 MHz); 40 db (2.0 GHz up.) RF attenuation 100 db uncalibrated internal 10 MHz to 12.4 GHz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz, 17.3x19x26, 230 lbs sh w/case. Used-repairable, \$425 \$245 \$295. MAINTENANCE MANUAL, partial repro, \$15.00 OPERATOR'S MANUAL, partial repro, \$8.50



ACCESSORY KIT for UPM-84 including five bandpass filters for segments of 0.75-11.8 GHz range, three variable attenuators and three coax to waveguide adapters for 12.4-44.88 GHz; 20 lbs. \$85.00 with set purchase.

AN/UPM-84A ANALYZER SET, later version with range to 63 GHz. Includes TS-1916 analyzer, accessories and repro manuals; "flight-line" yellow color. Used-repairable, \$525.00

AB-35 MAST SECTIONS

AB-35/TRC-7 ALUMINUM MAST SECTIONS, 33" Lg X 1.5" dia fit together to form 30' mast; p/o RC-292, 3#. Used \$6 ea; 12/#60. CW-50 BAG, used, \$8. GUY RING PLATE for AB-35, \$1.25 ea. GUY ROPE on RL-28 f/AB-35, 55'; 2#. Used, \$4.

HUPP VEHICLE FAN



12 VDC HUPP FAN with oscillating grill designed for use in cars, trucks, buses, RV's, etc where "extra" air movement is desired. Plugs into vehicle cigarette lighter and mounts on dash or other flat surface. Good-looking white plastic enclosure has black grill and pivots on mount to adjust angle. Includes 4 ft cord and brackets; 5x 9x3.4, 4 lbs sh. #HUPP-200-14, NEW, \$19.95

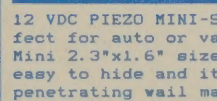
15 FT LIGHTER CORD, long cord may be wired to above Hupp fan or other car appliance to extend useful range. Plugs into vehicle cigarette lighter. Heavy #16 wire; 2 lbs. #LI-C15, NEW \$4.

PAGING HORN



OUTDOOR PAGING HORN with sealed voice coil and 5" dia aluminum horn. Rated 10 watts 8 ohms. Includes mounting bracket. O/a 4.8" deep, 4 lbs sh. MURA #CBH-5, NEW, \$9.95

12 VDC PIEZO SIREN



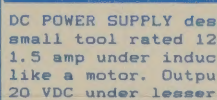
12 VDC PIEZO MINI-SIREN perfect for auto or van security. Mini 2.3"x1.6" size makes it easy to hide and its 110 DB penetrating wail makes the siren impossible to ignore! Flat-black plastic with swivel bracket; 2 lb sh. #12V-PMS, NEW, \$8.95

24 VDC SUPPLIES



Heavy-duty transformer type modular DC supplies with trimpot adjustable voltage outputs: POWER/MATE #EMA-18/24D rated 24 VDC 6.5 amps; tapped 18/20 V 7 amps. Primary 115/230 VAC 47-63 Hz. 4.8x9x3, 11 lbs. Unused, \$34.95 POWER-ONE #CP366A DUAL DC SUPPLY, outputs +24 VDC @ 3 amps and +12 VDC @ 2 amps. 24 V output has current limit adjust. Other outputs -5 V 0.75 A, -6.6 V 0.5A unregulated. Requires 105-125 VAC 47-63 Hz input; 5x 6.8x4.8, 11 lbs sh. Unused, \$34.50

SMALL TOOL SUPPLY



DC POWER SUPPLY designed for small tool rated 12 VDC @ 1.5 amp under inductive load like a motor. Output over 20 VDC under lesser loads; can be varied somewhat depending on load. Includes 6 ft AC cord; requires 115 VAC 60 Hz input; 2.5x2.5x5, 3#. #DR-12VPS, NEW, \$10.95

25-220 PF CAP



PRECISION TANK TUNE CAPACITOR 25-220 pf with right angle drive worm gear reduction tuning; 0.03" spacing. 1"x1/4" dia shaft. O/a 4.5 x2.8x3.3, 3 lbs sh. #C9/SG-15, used, \$9.00

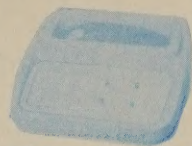
FLATFACE CRT

4MP1 ELECTROSTATIC CRT

3.5" square flat-face; medium persistence. Typical operating: 340-510 V anode #1, 2 KV #2, 4 KV #3; heater 6.3 VAC 14-pin base; 13.8"L, 4#. Unused \$35
***** TUBE SPECIALS *****
EM34/6CD7 EYE TUBE, Admiral/Amperex, \$10.00
8295A/PL-172 P-A TUBE, used-tested, \$300.00
HAMAMATSU R444-T2 PHOTOMULTIPLIER, \$45.00
WESTERN ELECTRIC 101D, JAN-boxed, \$10.00

IERC TUBE SHIELD KIT, Mu-Metal shields lessen EM interference. Includes three TR6020B (12AX7-size), one each TR5020B (6BA6) and TR5015B (6AK5); 1#. #KT1-IERC, NEW, \$3.50

PHONE PATCH



VOX-A-PHONE, functions as telephone patch using a voice-activated switch to key a transmitter and can be used as "hands off" remote mic in NORMAL mode. In effect permits relaying of telephone conversations via radio and vice versa. Connects to mic and speaker jacks of a transceiver and telephone handset is placed in unit's cradle and is acoustically-coupled to transceiver. Telephone volume automatically controlled; transmit volume manually. 3 minute timer starts upon patch connection and tones when 20 seconds remains in patch period. Some jack re-wiring may be required. 4x11x11, 6 lbs sh. #VOX-PHONE, NEW, \$55.00

SSB CONVERTER



CV-1982/TSC-26 SINGLE SIDEBAND CONVERTER for receivers having final IF's of 455 KHz such as R-390A and SP-600. Features 3" square -20-0-+3 VU meter and 1-3/4" sq carrier and subcarrier meters. Has dual function Switch Meter RTO Center-AF Out and Monitor AF Out-AFC PIPS; also switches Direct-Inverted (USB-LSB) Spectrum Translation, AF Gain, AFC, Tune. With nuvistors 7586, 17/7587, 7895, 4/8056. Requires 115 V 60 Hz; 5.3x19x16.3, 29 lbs sh. Used-repairable, \$175. MANUAL, repro, \$10.

RADIO SET CONTROL

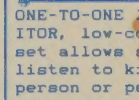
C-1123/GRC CONTROL, routes input/output FSK-AM-CW signals to proper equipment in GRC-26D radio set comprised of T-368, R-390, CV-116, MD-239 & TT-76. Controls for SIDETONE Rcvr A-Off-Rcvr B, HYBRID BAL, REMOTE TEL RCVR A-Local Tel-Rcvr B, TELETYPE NORMAL or REMOTE OW-DX; also 0-100 DC MA for BIAS ADJUST. Connections for TTY Switch, Mike or Key, Converter Rcvr A & B, XMTR, Remote Tel, Remote Send or OW DX, Remote Rec DX. Jacks: Send One Way Duplex, REC Duplex, Local Tel. Requires 115 VAC 60 Hz; 12x11x6, 13 lbs sh. Used, \$35.00 MANUAL for AN/GRC-26D with schematics for C-1123 and MD-239, original, \$12.00

FSK CONVERTER



CV-278 FREQUENCY SHIFT CONVERTER designed for RTTY operation of R-392 receiver and T-195/GRC-19 transmitter; usable with any receiver having final IF of 450-500 KHz. Has Signal Input and Discriminator meters; with tubes 26A6, 26A7, operator's TM. Requires 28 VDC 2 amps; 9.3x 7.3x13.8, 26 lbs sh. Unused, \$75.00 POWER CONNECTOR, \$6.00 w/set purchase

INTERCOM / MONITOR



ONE-TO-ONE INTERCOM/MONITOR, low-cost wire-type set allows someone to listen to kids, a sick person or pet from another room. Consists of of master control with ON-OFF, push-to-talk switch, and audio electronics; a remote control with speaker on-ly; and 20 ft wire. Requires 9 VDC transistor battery (not supplied); control size 4.9x2.5 x1, 3 lbs sh. #CH-MON, unused, \$7.95 /set.

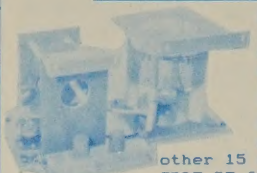
CRT DISPLAY



INFOTEK CRT DISPLAY MODULE, part of "unknown" medical equipment; operates from 12-15 VDC and has vertical and horizontal inputs which drive a magnetically deflected 4.5"x3.5" CRT. High voltage developed in sealed module; external pot required for intensity control. 4.5x5.8 x11.5, 8 lbs sh. #27M144, unused, \$39.50

MINIMUM ORDER \$10.00

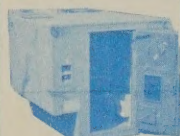
1 KW LOADING COIL



RF-111/TRC-75 LOADING COIL for 1 KW PEP HF transmitter; electrically increase length of a whip or long-wire antenna. Consists of two fixed coils: one 30 uH, the other 15 uH; also two 26 VDC SPDT RE-6B vacuum relays. 7.6x16.3x9.1, 12 lbs sh. Used, \$79.50

#L6/RF111 COIL from above, 30 uH; 13 turns of #8 silver-plated wire in 6" dia coil. Form notched for 4 more turns; fiber-glass ends. O/a 8x7.5 x6.5, 4#. Used, \$12.95 L6 L5
#L5/RF11 COIL, 15 uH; 12 turns #8 wire in 3.75" dia coil. 7.3x6.5x4.5, 4#. Used, \$11.

TSC-15 RADIO HUT



AN/TSC-15 RADIO SET with S-208/TSC-15 shelter; hut fits onto 4x4 truck like camper. 1 KW HF radio system includes two R-761/TRC-75 receivers, one T-730/TRC-75 transmitter, CU-749 antenna coupler, TGA-1 RTTY control, RF-111/TRC-75, switchboard, and all associated control boxes, racks and cables. Antennas and accessory items not available. 78"Lx74"Wx74"H, 2400 lbs. Used, \$2000.00

S-208 SHELTER only, less radio equipment except for switchboard, panel control boxes, racks and cables; 1600 lbs. Used, \$800.00

R-761/ARC-58 RECEIVER, 2 to 29.999 MHz AM-SSB-CW-FSK w/ 28000 channels. Also provides 200 mw exciter output for T-605 or T-730/TRC-75 1 KW xmitter-power amp. Frequency and mode select provided by C-3141/TRC-75 control (page 5 WS-89 Catalog). Requires 115 VAC 400 Hz 1 0; 7.6x10.3x23.5, 55 lbs. Used, \$300. SCHEMATIC #6. C-3141 CONTROL, used, \$29.95; Schematic #2. CONNECTORS for above, \$5 with set purchase.



SPEAKER PANEL

LS-206 DUAL SPEAKER PANEL, rackmount panel with two 6" dia PM speakers each in separate baffled compartment with 600 ohm:8 ohm matching transformer. Toggle switches on front for Speaker A or B. 8.8x19x8, 16 lbs. Used, \$28.

PDR-27 RADIAC SET

IM-74/PDR-27C PORTABLE RADIAC METER using Geiger-Mueller tube in DT-53 detector probe. Meter measures amounts of beta and gamma radiation in millirentgens per hour with selectable range scales 0.5, 5, 50, and 500 M-rntgs/hr. BNC connection for headset monitoring. Requires 135 VDC, 22.5, and 1.5 VDC originally supplied by batteries BA-416, -413, -401 (not included). 8x6x120.6, 15 lbs sh. Used, \$34.50

IM-140/PDR-27CY, like IM-74 but operates from five D-cell batteries. Used, \$54.50

IM-85/PDR-27F, later model of IM-74 but requires batteries BA-314, -261, RG-4B (not supplied). 8x5.8x10.6, 13#. Used, \$39.50

ACCESSORIES for PDR-27 radiacs:
MANUALS, please specify model #, \$8.50 ea
BA-314 BATTERY, 67.5 VDC (2 req for IM-85); 6/84 date code--not tested. 2 for \$2.50
BA-413 BATTERY, 22.5 VDC for IM-74, \$2.00 ea
BA-416 BATTERY, 135 VDC for IM-74, 4#, \$5.95
SPARE GM tubes, BS-1, \$10. BS-2, \$8.00
CASES CY-693 for IM-74 or CY-1296 for IM-85, 12#. Used \$6 each with set purchase.
H-43/PDR HEADSET for PDR-27, \$5.95
CARRYING STRAPS for radiacs, used, \$5.00 ea.

2-12 MHZ USB 100 WATTS



RT-671/PRC-47 HF TRANSCEIVER, 2 to 11.999 MHz USB (voice and CW+800 Hz) in 1 KHz steps. Output 100 watts PEP (Hi) or 20 W (Lo). FSK possible with accessory converter (not available). Transistorized except for PL-177WA tube in power amp and 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A Load and Tune controls, and VFO Output Meter. Designed for field or vehicular use; operates from either 24 VDC 20 amps or 115 V 400 Hz. 7x21.3x13.5, 45 lbs. Used-repairable, \$300 \$225 MANUAL f/RT671, past repair, \$17 w/set purch. AS-1321 LONG-WIRE ANTENNA, 3 lbs. Used, \$12. H-33/PT HANDSET for above, used, \$15.00 LS-166 SPEAKER with U-77 plug, used, \$12.00 CX-8395 BATTERY CABLE, 3 ft long, 3#, \$8.00 CX-8396 ADAPTER "Y" CABLE, \$8.00

VRC-12 MOUNTS

MT-1029/VRC VEHICULAR MOUNT for RT-246 or RT-524/VRC-12 transceivers which are still the standard field radios of the U.S. Army. 5x12.5x16, 19 lbs. Used, \$29.50;

MT-1898/VRC MOUNT for companion R-442 auxiliary receiver; 5x6x12.3, 15 lbs. Used, \$25. Unused, \$37.50

HIGH CURRENT CHOKES

HIGH CURRENT CHOKES removed from large transmitter; each 8"Hx7.5"Wx6"D + 2.3"H insulators. Sealed-type; 55 lbs sh: #L800/TMC, 2 Hy 1.6 amps; \$25. #L801/TMC, 5 Hy 1.0 amps; \$24.

6.5 VCT 75 AMP FILAMENT TRANSFORMER, primary 190-250 VAC 1 1/2 in 10 V steps; 10"Hx6"W x5.5"D, 36 lbs sh. #T801/TMC, \$22.00

TEST LEADS
INSTRUMENT TEST LEADS for meters, etc. One end has 5.2"L plastic prod; other end tinned wire. Military-quality with heavy insulation; o/a 36" length. One red and one black lead per set; 1 lb. #TS-LRB, NEW, \$2.50/set

LS-454 LOUDSPEAKER

LS-454 LOUDSPEAKER in rugged cast aluminum housing. Similar to LS-166 but does not have Hi-Lo switch and cord has U-229 connector for use with PRC-25/77 and VRC-12 family equipment. 4" dia speaker has heavy duty magnet and 600:8 ohm audio transformer. 5x5 x3.3, 5 lbs sh. Used w/wall bracket, \$16.00

TS-2609 WATTMETER

TS-2609A RF POWER TEST SET (Bird 4110), Thruline Wattmeter for 30-76 MHz range; measures upto 10 or 100 watts depending upon scale. Ideal to check 6-meter gear output or military PRC-25-77/VRC-12 transceivers. BNC connections; 4.8x2x3.8, 3# sh. Used, \$95.00

1575 VA SOLA

SOLA CVS LINE REGULATOR harmonic neutralized unit takes inputs 95-130, 175-235, or 190-260 VAC and provides stable output of 120 VAC 60 Hz 1575 VA. Hard-wire style; 19.9x10x9.8, 100 lbs sh, 85 lbs net. #25-516, used, \$225.

602-999 MHZ OSCILLATOR

AM-1957 AMPLIFIER-OSCILLATOR, 601.5 to 999.5 MHz plug-in for T-893/GRC-50 transmitter. Utilizes three 7289 tubes as 651-1049.5 MHz oscillator, -50 MHz mixer and 15 watt power amp. Directional coupler detects Reflected Power and provides monitor output for external meter circuit. RF passes through duplexer having identical receive/transmit sections each with two cavities. (Receive signal routed to separate AM-1955 receive module.) Transmit RF then moves to second directional coupler which detects Reflected Power also with output for external meter. Wavemeter samples output RF for frequency measurement using calibration chart. Cathode current of each 7289 regulated by external 250 VDC (not supplied). Requires 115 VAC 60 Hz, 645 VDC, 650 VDC, 800 VDC, 5.7 VAC 5.5 VAC. Schematic and info included. 8.9x11x16, 36 lbs sh. Used-excellent, \$135.
AM-1955 RECEIVER AMPLIFIER CONVERTER, see page 4 Catalog WS-89; 30 lbs sh. \$45.00

IF AMP

70 MHZ IF AMPLIFIER ASSEMBLY, no schematic available but has seven transistor amp plus three other transistors which seem to be in AGC circuit. Amp was fed a signal from 60 to 100 MHz. Gain varied over range from 28 at 56 MHz, 45 at 70 MHz, to 12 at 100 MHz using 2 MV signal input. Has IF Gain pot, five trimmer capacitors, and typical transistors 2N2218, 2N708, RAY 7012, and 2N918. BNC RF connections & DB-15 connector; 1.7x10x4.3, 2 lbs. #IFA-652590, used, \$10.95

SSB TRANSCEIVER

GENERAL DYNAMICS SC-900-SERIES HF SSB TRANSCEIVER SET, includes SC901X-A transceiver, SC901S power supply, SC908A power amp, and SC908S power supply. Transceiver covers 2-30 MHz ISB-USB-AM and is of same synthesized HF family as R-1051 and RT-618/URC radios. Transmitter exciter output from it is directed to SC908A where PL172/8295 PA tube amplifies signal to produce 1 KW PEP output. Good 8295 and interconnect cables supplied. No tech data available. SC901A powers SC901X & SC908A powers SC908S from 115/230 V 50-1000 Hz 2 KVA input. O/a 31.5x19x21.5, 450 lbs. Used-repairable, \$1500.

AM-3007/URT POWER AMPLIFIER for use with T-827 transmitter or RT-618/URC HF transceiver. RF input of 100-250 MW amplified to 100 watt PEP SSB output; 8233 tube drives 8116 PA tube. 50 ohms input imped.; schematic and block diagram included. Requires 28 VDC or 115 VAC 50-1000 Hz; 7x17.4x17, 88 lbs (UPS in 2 pkgs.) Used-repairable, \$475.
R-1051/URR RECEIVER (page 25, WS-89 Catalog) 2-30 MHz LSB-USB-AM-CW-FSK; synthesized output. 7x17.4x18.9, 80 lbs (UPS in 2 pkgs.) Used-repairable w/book, \$650. Checked, \$795.

148-152 MHZ BANDPASS

We just received stock of TUNABLE TWIN-CAVITY BAND PASS FILTERS for frequencies which we have not had in several years. These can be converted to cover portions of the amateur radio bands. (See conversion article in 2/80 Ham Radio Magazine.) Each gold-plated cavity has tuning knobs, dials, and "N" connections; 7x2.5x9.5, 8 lbs sh.:
CONVERSION to 148-152 MHz band, \$22.00 ea:
F-192/U 100-121 MHz; F-193/U 121-142 MHz
F-194/U 142-163 MHz no conversion, \$29.50
CONVERSION to 220-225 MHz band, \$20.00 ea:
F-195/U 163-184 MHz; F-196/U 184-205 MHz
F-197/U 205-226 MHz no conversion, \$28.95
F-202 314-344 MHz converts 420-450 MHz, \$20.